

METHOD OF INDUCING DIFFERENTIATION OF DENDRITIC CELLS

ABSTRACT

The present invention is related to compounds having general formula Z-OC (C R_{n1}R_{n2}) - CO-Z wherein Z = OH or NH₂ and n₁ = n₂ = 1 to 8, useful for modulation of immune response by inducing differentiation of dendritic cells consisting novel class of amino acid derivatives (sulfonic acid / sulfate derivatives of naturally occurring amino acids, and their amides) of the general formula ZOC-CR₃R₄-CR₂(NHR₁)-COOH, ZOC-CR₅R₆-CR₃R₄-CR₁(NHR₂)-COOH, ZOC-CR₇R₈-CR₅R₆-CR₃R₄-CR₁(NHR₂)-COOH wherein Z=OH or NH₂; R₁ to R₈ denotes H, SO₃H, or OSO₃H. In addition, the dicarboxylic acids and their amides ZOC-(CH₂)_n-CR₁R₂-COOH, where Z=OH or NH₂; and n=1,2,3. The groups R₁ / R₂ =H / SO₃H or OSO₃H or CH₂-SO₃H or CH₂-OSO₃H and vice versa. The factors also contain different divalent metal cations such as Mg, Ca and Zn. The composition consists of varying amounts of the above amino acid / dicarboxylic acid derivatives or their pharmaceutically acceptable alkali / alkaline earth metal salts or their salts, the processes for the preparation of the aforesaid compounds useful for the differentiation and maturation of dendritic cells.